

South Carolina Department of Commerce
Recycling Market Development Advisory Council
2009 Annual Report

SOUTH CAROLINA DEPARTMENT OF COMMERCE

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Acknowledgements

The Recycling Market Development Advisory Council (RMDAC) wishes to acknowledge the assistance and support provided by the following businesses and organizations:

A Recycling Center
AdvanceSC
American Recycling of South Carolina, LLC
Asphalt Rubber Technology Service
BMW North America
Bob Doster's Backstreet Studio
Carolina Plastics
Carolina Recycling Association
City of Columbia
City of Columbia Climate Protection Action Campaign
Cleanlites Recycling
Clemson University
Clemson University Strom Thurmond Institute
Custom Forest Products
Davco-Steel
Dove Data Products
ECI-Find New Markets
Emes-USA
Ever-Green Recycling
EZ Products, LLC
Fisher Recycling
Freudenberg Texbond
Georgia Department of Community Affairs-Environmental Management Program
Greater Greenville Sanitation Commission
Green Waste Solution
Keep the Midlands Beautiful
Leigh Fibers
Metal Tech Systems
Michelin North America
Milliken
Moore & Van Allen Law Firm
Mumford Industries
New Carolina
Nine Lives Recycling
Noisette Company
Nucor Corp.
OmniSource Southeast
Plastics Provider, Inc.
Recover Incorporated
Renew Resources, LLC

Republic Services
Research Technologies
S.C. Department of Commerce
S.C. Department of Health and Environmental Control (DHEC)
S.C. DHEC Office of Solid Waste Reduction and Recycling
S.C. DHEC Center for Waste Minimization
S.C. DHEC Small Business Environmental Assistance Program
S.C. Department of Motor Vehicles
S.C. Energy Office
Santee Cooper
Southeastern Plastics Recovery
S.C. Biomass Council
S.C. Energy Office
S.C. General Assembly
S.C. Materials Management Office
S.C. Sustainability Institute
S.C. Recycling Industry Group
S.H. Carter Development, Inc.
Solid Waste Association of North America-South Carolina Palmetto Chapter
Sonoco
Southeastern Plastics Recover, Inc.
Southeast Recycling Development Council, Inc.
Steel Recycling Institute
Sun Printing
Sustainable Warehouse
Swamp Fox
Tomato Palms
Tracpak International, Inc.
United Resource Recovery Corporation
USFibers

Recycling Market Development Advisory Council

The Recycling Market Development Advisory Council (RMDAC) is a council of 14 Governor-appointed members representing recycling companies, industry, local governments, higher education and the general public. Established by the S.C. Solid Waste Policy and Management Act of 1991, RMDAC formulates programs and policies to encourage markets for new and existing recyclable materials. The council is supported by the S.C. Department of Commerce (Commerce) staff that coordinates the activities of the council and provides technical and economic development assistance to recycling businesses and industry. RMDAC tracks the success and growth of the state's recycling industry and makes policy and program recommendations to the Governor and General Assembly each year.

In 2009, Edwin Marr, City of Greenville, was appointed to serve as the RMDAC municipalities' representative replacing Roger LeDuc who transitioned off the council in 2008. Ron Moore transitioned off the council in 2009 and Kristen Brown of Green Waste Solutions was appointed as the general public representative.

A list of the council members is located in Appendix A on page 27.

The council's mission is to advocate opportunities to develop sustainable recycling markets, support the growth of S.C.'s recycling industry and advise the state on efforts required to increase recovery of recyclable materials.

RMDAC is supported by three committees: Executive, Policy and Strategic Initiatives and Economic Development. Members of the Executive Committee include the RMDAC Chair, Vice Chair, chairs of the Policy and Economic Development committees. The Policy and Economic Development committees consist of council members. Staff supports each of these committees. These committees support and advance RMDAC's goals and objectives, assist in developing and implementing the work plan and advance S.C.'s recycling industry.

Guiding Principles:

- To meet specific council requirements contained in the S.C. Solid Waste Policy and Management Act of 1991.
- To assure existing and potential recycling businesses of consistent, cost-competitive, quality supply of required recyclables.
- To identify existing barriers to and opportunities for increased recovery and use of recovered materials within the state and take appropriate actions to eliminate or maximize these conditions.
- To monitor and understand the implications of institutional, economic, market and technical development both in and out of the state that could measurably influence the generation and use of recyclables.
- To assist in the creation of jobs and investment of recycling industries in the state.

S.C. Solid Waste Policy and Management Act

The S.C. Solid Waste Policy and Management Act of 1991 requires that RMDAC consider the following elements in its annual report:

Any revisions which the council determines are necessary to its initial report

There are no revisions to be added.

A description and analysis of the amounts and types of solid waste materials recovered or recycled in this state during the preceding year

The municipal solid waste (MSW) recycling rate was 22 percent and the MSW disposal rate was 3.9 pounds per person per day. The total solid waste recycling rate was 30 percent.

MSW commodities collected in fiscal year (FY) 2009 were as follows:

Glass 2 percent (14,147 tons)
Metal 14 percent (130,643 tons)
Paper 55 percent (502,908 tons)
Plastic 2 percent (22,244 tons)
Banned 15 percent (133,995 tons)
Miscellaneous 7 percent (63,177 tons)
Mixed Recyclables 5 percent (45,846 tons)

RMDAC will continue to work with the S.C. Department of Health and Environmental Control (DHEC) to analyze solid waste recycling numbers to identify growth opportunities for the recycling industry.

Recommendations regarding materials which should be added or deleted from source separation, recovery and recycling programs

Electronics, carpet, construction and demolition (C & D), waste tires, fiberglass, and organic waste should continue to be promoted as recyclable commodities and emerging markets.

Recommendations, including tax incentives, to facilitate the development of markets for recovered materials or products in this state

The recycling industry needs policy to increase supply of recycled material as feedstock to our manufacturing base in S.C. This policy will be developed for introduction in the 2011 legislative session and would potentially include specific material land fill bans, fee based programs to build infrastructure for collection such as pay as you throw, and other incentives to build recycling business and industry in S.C.

Incentives are an important instrument in maintaining and attracting new jobs and investment in S.C. Recycling tax incentives also help promote and expand recycling businesses and create competitive markets. Tax incentives can expand local markets for recyclable materials, reduce the

amount of waste going to landfills, minimize pollution, create new markets, save energy and conserve natural resources.

RMDAC will continue to support a variety of policies to help create jobs and capital investment. Recycling jobs are green jobs that help the local tax base in S.C. Specific incentive recommendations include recommending a tax incentive for recycling business development and recruitment, creating infrastructure to make large scale composting a possibility which requires promulgation of a DHEC regulation to allow permitting of these facilities, as well as encouraging passage of statewide electronics recycling legislation and passage of a bill requiring permitted facilities who have ABC licenses to recycle beverage containers.

RMDAC Work Plan Strategies

In consultation with Commerce and DHEC, RMDAC developed strategies for its 2009 work plan. The strategies focus on priorities and initiatives impacting the recycling industry and are as follows:

Carbon Reducing Strategies through Recycling Study: The study focuses on carbon and greenhouse gas (GHG) regulations and legislation and incorporates recycling as an emission reduction strategy. Information on carbon credits, carbon reduction tools, case studies and laws affecting the recycling industry will be included in the study.

Pay As You Throw (PAYT): Marketing and outreach information will be used in S.C. to help educate officials in the public and private sector about recycling. Deliverables for this strategy include developing a marketing booklet on PAYT and incentive based recycling programs.

Collaboration with Higher Education: RMDAC will partner with institutions of higher education to determine how recycling information is being taught in these institutions. Deliverables for this strategy include an inventory of state and national recycling curricula.

Education and Outreach: Webinars on various recycling-related topics will be developed to educate public and private sector representatives about the industry. Deliverables for this strategy include developing webinar presentations and a summary report of obstacles and barriers.

Waste Tires: A waste tire processor survey was developed to obtain tire recycling information for reporting to DHEC and the Rubber Manufacturers Association (RMA). Deliverables for this strategy include surveying processors on DHEC's approved waste tire recycling and processing facility list, site visits and developing a summary report of obstacles and barriers. The site visits will help determine end markets, workforce needs, transportation and logistical issues, strengths, barriers and partnerships.

RMDAC will continue to work with the Asphalt Rubber Technology Service (ARTS) and DHEC to help educate and promote the use of crumb rubber among rubber and plastic manufacturers. Crumb rubber, made from grinding rubber products such as scrap tires can be utilized in rubber, plastic and rubber-plastic compounds to manufacture products such as floor mats, athletic tracks and ground cover for playgrounds. Commerce's Crumb Rubber Initiative brochure will help facilitate these efforts. A copy of the Crumb Rubber Initiative brochure can be accessed at http://sccommerce.com/sites/default/files/document_directory/Recycling_Market_Development_-_Crumb_Rubber_Initiative_2009.pdf

Used Oil: RMDAC and staff will survey state government fleets, research the state's used oil recycling practices and draft a re-refined used oil policy based on a federal executive order. Deliverables for this strategy include developing a summary report of S.C.'s re-refined oil usage, re-refined oil practices in other state governments and recycling practices in S.C. governmental fleets. A re-refined oil policy for S.C. state government, a promotional flyer encouraging recycling of used oil and a summary report of obstacles and barriers will be developed.

S. C. Recycling Industry Group

The Recycling Industry Group (RIG) works to increase the recycling industry's competitiveness. RIG is supported by RMDAC with help from New Carolina – S.C.'s Council on Competitiveness (New Carolina). Its mission is to expand and strengthen S.C.'s recycling industry by establishing policy, building networks, promoting market development and leveraging existing infrastructure. The RIG vision is for S.C. to be a national leader in the recycling industry in terms of creating jobs and investment and providing access to sustainable markets for recyclable materials.

RIG is composed of five committees; *Business Environment*, *Firm Formation*, *Joint Marketing*, *Value Chain* and *Cross Functional*. This year, with the support of RMDAC and staff, RIG held monthly conference calls with the RIG Steering Committee and three joint RIG/RMDAC meetings. The first meeting was held in Columbia at the S.C. State Museum. The meeting included a Markets Panel and participants were Tina Huskey of Mumford Industries, Art Levy of OmniSource Southeast, Phil Ammons of Plastics Provider, Inc., Ronnie Grant of Sonoco and Chris Fisher of Fisher Recycling. The panelists discussed the current market situation and economic outlook. During the meeting, RIG provided an update on activities from the group's committees which include Business Environment, Value Chain, Firm Formation and Joint Marketing. The committee brainstormed the strengths, weaknesses, opportunities and threats for each activity. Subsequent meetings were held in North Charleston and Columbia. Highlights of these meetings included a tour of Fisher Recycling, panels spotlighting S.C.'s recycling businesses, promotion of the "Reduce, Reuse, Recycle" specialty license plate and discussions on advancing the recycling industry through marketing and outreach, developing a common recycling industry message, creating awareness about recycling's economic impact, educating public officials and the general public about PAYT and improving networking, partnerships, shipping and logistics opportunities.

RIG members continue to build partnerships and make significant strides to promote and advance S.C.'s recycling industry. RIG partnered with various entities on the S.C. Recycling Legislative Day on April 21, 2009, the development of the Reduce, Reuse, Recycle Plate and RIG's strategic plan. The group will continue to show the breadth and depth of the recycling industry through collaboration with Donna London of Clemson University's *Your Day* program which is featured on S.C. Educational Television Radio at noon on Thursdays. *Your Day* has featured interviews with Gary Bilbro of the Carolina Recycling Association (CRA), Chris Fisher of Fisher Recycling, Derek McFarland of Sonoco, Kristen Brown of Green Waste Solutions, Ed Marr with the City of Greenville, Eric Foust of Custom Forest Products and Steve Rowland of Nucor. Mike Switzer of the S.C. Business Review featured an interview with Chantal Fryer on the recycling sector's activities and impact.

The Joint Marketing committee of the RIG worked with Commerce and the S.C. Department of Transportation (DOT) to make blue recycling bags available to Adopt-a-Highway program coordinators to promote recycling in litter pick-up and waste disposal across the state.

2009 S.C. Recycling Legislative Day

On April 21, 2009, the CRA, S.C.'s Recycling Industry Group, and RMDAC hosted a Recycling Industry Legislative Day at the state house. Moore & Van Allen Law Firm, OmniSource Southeast, Nucor and Sonoco sponsored the day's activities.

Recycling industry advocates received recognition in the state house chambers through House and Senate resolutions H3867 and S0682 that declared April 21, 2009 "S.C. Recyclers Day" and commended and recognized recyclers for their contribution to the state's economy and efforts to protect the environment and promote energy efficiency.

Recycling industry supporters received information on recycling related legislation pending in the House and Senate and participated in an overview of the legislative process. Legislation reviewed during the meeting included (S131) Electronic Waste Management Act, (H3200) Electronics Recycling Act, S.C Manufacturer Responsibility and Consumer Convenience Information Technology Equipment Collection and Recovery Act (H4093) and other recycling related bills.

The Business Environment committee of the RIG helped coordinate the activities of the day. Testifying on behalf of the recycling industry in a meeting of the House Agriculture and Natural Resources committee was Gary Bilbro of CRA, Gerry Fishbeck of United Resource Recovery Corporation, Tim Lee of Lee Disposal Services LLC, Mike Gipko of Nucor and Randall Essick of Waste Management Inc. Attendees met with legislators and toured the state house. Moore & Van Allen staff facilitated activities for the group. The next Recycling Industry Legislative Day is scheduled for February 3, 2010.

A list of 2009 recycling related legislation is located in Appendix L on page 43.

Recycling Specialty Plate

A Recycling Specialty License Plate bill was passed through efforts of the RIG. The bill created a license plate with the recycling logo which benefits S.C.'s recycling industry through education, awareness and support through a partnership with the CRA. The "Reduce, Reuse, Recycle" plate costs \$54, which includes the registration fee of \$24 and tag fee of \$30. Production for the license plate commenced in January 2010 and orders are available at the S.C. Department of Motor Vehicles' (DMV) Web site. The Greater Greenville Sanitation Commission (GGSC) provided financial support for the production of the license plate and provides office space as well as support to the CRA in Greenville, S.C.



S.C. Recycling Industry Group Strategic Plan

The RIG also teamed up with RMDAC and New Carolina to develop a strategic plan for the industry. The plan will examine recycling policies outside of S.C., analyze data on the industry and utilize a CEO Roundtable for recycling chief executives to develop policies, visions and

goals for the recycling industry. The total cost for the plan is \$30,000 and work will be provided by Clemson University's Strom Thurmond Institute. AdvanceSC, through New Carolina, provided a \$15,000 grant towards the project. Matching funds in the amount of \$15,000 from the recycling industry and recycling related organizations were obtained through a fundraising drive. The plan has the support of a diverse group of small, medium and large recycling company sponsors. A final strategic plan will be published in June 2010.



Platinum



Gold



Silver



Bronze



Patron



Plastics Provider

Donor



The Waste Solution



S.C. Department of Commerce

Within the S.C. Department of Commerce (Commerce), there are several program areas that are helping to support the growth of the recycling industry. The Recycling Market Development (RMD) staff to RMDAC is provided by the Business Services Department which provides services to new and existing companies. Business Services provides a diverse array of programs which include:

- working with entrepreneurs to develop business plans
- helping businesses access startup resources, including financing opportunities
- pairing existing businesses with service providers and suppliers through the BuySC program
- developing export markets and
- identifying recycling resources and opportunities

Commerce's Business Services department utilizes a network of resources and partners, helping match value-added services with S.C. business needs. Business Services partners and allies include S.C. Business One Stop, ECI-Find New Markets, which assists businesses with export, market research and marketing solutions; the U.S. Commercial Service of the U.S. Department of Commerce, which assists with international trade missions; the S.C. Technical College System and S.C.'s Small Business Development Centers which assist small businesses with startup and business development resources. In addition, Business Services has developed a Small Business and Entrepreneurship Resource Guide that lists many resources for new and existing business to reach out to regarding their financial, operational and overall business needs. For more information on Business Services, visit <http://sccommerce.com/business-services>.

Commerce has initiated direct contact with S.C.'s manufacturing community and recycling services are incorporated into calls on the state's industry base. The Business Services department contacts startup and existing industry to help determine company needs and cross-sells Commerce's resources which include recycling market development, existing business and entrepreneurial support, export development, international trade missions, BuySC (supply chain) and workforce development.

Commerce's Global Business Development program incorporates recycling information in each official recruiting proposal and closing package. Business Services, in coordination with Commerce's Marketing and Communications department, helped develop recycling material for the prospect proposals. S.C.'s recycling industry provides value-added services to businesses to locate in S.C. and provides opportunities to help the industry grow.

2009 Recycling Related Investment Announcements

The recycling industry announced over \$354 million in capital investment, created 1,354 new jobs and resulted in 18 new or existing companies investing in S.C. in 2009. The recycling industry is comprised of haulers, collectors, processors, brokers, recycling equipment sales and manufacturers, and end-users or manufacturers who take recycled material feedstock and make recycled content products from them.

In addition to recycling, other green industry sector companies in S.C. announced over \$146 million in capital investment and 971 green jobs, adding 14 new or existing businesses. The green industry sector is comprised of companies that help reduce the use of fossil fuels, decrease pollution and greenhouse gas emissions, develop renewable energy sources and increase the efficiency of energy usage.

Total green jobs in S.C. including recycling and green industry investments led to over \$500 million in capital investment, 2,325 jobs and 32 new or existing company expansions in 2009.

MetalTech Systems

The S.C. Department of Commerce and Georgetown County announced that MetalTech Systems of South Carolina will open a new manufacturing facility in Georgetown County. MetalTech Systems will manufacture conveyor systems for the recycling industry, which will be sold to private waste management companies and municipalities. The company will invest approximately \$4 million dollars and create 60 new jobs as a result of the investment.

The press release is located in Appendix B on page 28.

Sun Printing

The S.C. Department of Commerce, Lexington County and the Central SC Alliance announced that Sun Printing will expand its printing facility in Lexington County. The \$6 million investment is expected to generate 50 new jobs.

The press release is located in Appendix C on page 29.

Coastal Biodiesel Group

The South Carolina Department of Commerce and Horry County announced that Coastal Biodiesel Group Inc. will open a new facility in Horry County. The \$4.5 million investment is expected to generate 50 new jobs.

Coastal Biodiesel will take used cooking oils from restaurants and commercial cooking firms to produce biodiesel. The company has purchased a 28,000 square foot facility in Conway, and estimates it could produce up to 4 million gallons of biodiesel annually.

The press release is located in Appendix D on page 30.

Southeastern Petroleum

The S.C. Department of Commerce and Chester County joined Southeastern Petroleum at a groundbreaking celebration in Chester County. Southeastern Petroleum announced its plans to locate a new manufacturing facility in Chester County, investing approximately \$30 million and creating 24 new jobs.

Southeastern Petroleum is a green manufacturer of base oils used in the production of lubricants. Once fully operational, the company expects to produce up to 10 million gallons annually from their new Chester County facility.

The press release is located in Appendix E on page 31.

Waste2Energy Holdings

The S.C. Department of Commerce, the Greenville Area Development Corporation and Waste2Energy Holdings Inc. announced the location of Waste2Energy Holdings, Inc corporate headquarters to Greenville, S.C. The company plans to add 25 jobs over the next few years, as part of the organization's strategic growth initiatives in North America.

The press release is located in Appendix F on page 32.

ECOS Paints

The S.C. Department of Commerce, the Economic Futures Group of Spartanburg County and the Upstate Alliance today announced that ECOS Paints, Inc. will locate its new facility in Spartanburg County. The \$400,000 investment is expected to generate at least 10 new jobs.

The press release is located in Appendix G on page 34.

Fujifilm

The S.C. Department of Commerce and Greenwood County announced that Fujifilm will move its recycling operation for its QuickSnap cameras and the Waterproof QuickSnap camera assembly and packaging operations from a facility in Mexico to the Greenwood campus. The move is expected to create approximately 30 new jobs in Greenwood.

The press release is located in Appendix H on page 36.

Recycling Market Development Program

The Recycling Market Development Program (RMD) promotes market development for recycled materials, assists startup recycling businesses, helps existing companies with expansion efforts and provides technical assistance to business and industry to reduce waste streams and increase the amount of materials recovered and recycled.

Staff received over 200 requests for assistance from businesses, industries, government agencies, general public and other organizations. Staff provided assistance with business development, recycling, waste reduction, marketing, finance and regulatory affairs.

Staff, in conjunction with DHEC, is conducting site visits to S.C. materials recovery facilities (MRFs). These site visits will help determine end markets, workforce needs, transportation and logistical issues, strengths, barriers and partnerships. The visits will also help staff establish a rapport with the MRFs and determine supplier needs. The site visits commenced in the fall of 2009 and will continue during 2010.

Staff is also working in partnership with ARTS and DHEC on a waste tire initiative to promote the use of crumb rubber in S.C. highway projects. Monthly conference calls are held to discuss ways to promote and engage other partners to promote market development for tire and rubber recycling in South Carolina. To highlight the work DOT has done as an environmental steward, Commerce, ARTS and DHEC presented DOT with an Environmental Stewardship award on November 11, 2009.

Commerce, ARTS and DHEC are also planning a Tire Recycling Expo and Development Symposium (TREADS) which is scheduled for February 18, 2010 in Clemson, S.C. This southeastern regional symposium targets end-life of scrap tires, tire manufacturers, retailers, collectors, processors, end-product producers and current or potential end-product users. TREADS presentation topics include an introduction and southeastern market overview, regional state scrap tire policies, tire recycling business resources, rubberized asphalt overview, U.S. usage and types of applications, tire-derived aggregate, environmental stewardship in tire manufacturing, tire chips in septic tank drainfields, tire-derived fuel, beneficial usage of scrap tires in equestrian markets and selling to state governments. For more information about TREADS, visit www.ces.clemson.edu/treads.

S.C. Recycling Business Forum

The S.C. Recycling Business Forum is an annual event that brings recycling businesses and other industries together to help promote, strengthen and drive the momentum of S.C.'s recycling industry. The 2009 Forum was held on October 19 in Columbia. Participants received information on RIG, reporting and recycling markets and Smart Business Recycling. Presentations were made by the Georgia Department of Community Affairs Environmental Management Program, CRA, Southeast Recycling Development Council (SERDC), Carolina Plastics, Custom Forest Products, Ever-Green Recycling and Davco Steel. In addition, an awards ceremony was held to recognize businesses and industries making outstanding strides in waste reduction and recycling.

The following businesses were recognized for achievements in recycling:

- Best Small Business Recycling Business – Evergreen Recycling, Greenville S.C.
- Best Medium Industry Recycling Program – Hahl, Inc., Lexington, S.C.
- Best Large Business Recycling Program – Kiawah Island Golf Resort, Kiawah Island, S.C.
- Best Reuse Program – Sea Island Habitat for Humanity – Deconstruction Unit, John's Island, S.C.
- Recycler of the Year – Santee Cooper, Moncks Corner, S.C.

Tomato Palms, Sun Printing, AnMed Health, Southeastern Plastics Recovery and Tomato Vines were also recognized for their waste reduction and recycling efforts. The awards were made from recycled steel in the shape of a recycling symbol and were created by Bob Doster's Backstreet Studio in Lancaster, S.C.

A copy of the press release is located in Appendix I on page 38.

National and Regional Leadership

RMDAC staff maintains leadership positions in several professional recycling related organizations and programs. Staff's involvement in national and regional initiatives is aimed at increasing material supply and enhancing the growth of the recycling industry through its suppliers, processors and end-users. These professional affiliations include: Solid Waste Association of North America (SWANA) – S.C. Chapter, S.C. Environmental Excellence Program Advisory Committee, CRA, SERDC, DHEC's Solid Waste Advisory Council and Waste Tire Committee, Keep the Midlands Beautiful, S.C. Biomass Council, U.S. Green Building Council-S.C. Chapter, City of Columbia Climate Protection Action Campaign (CPAC), New Carolina and S.C. Resource Conservation Challenge.

Recycling Directory

The Commerce Recycling Directory provides essential links between businesses, industries and local governments searching for markets for recyclables, and the companies that accept the materials for processing and reuse. Being listed in this directory provides businesses the opportunity to market and increase awareness of its services and/or products. Entities will be able to search the directory for S.C. recycling haulers, processors, end-users, exporters, and recycling equipment suppliers. Recycling businesses must complete Commerce's recycling survey to be included in the directory. A copy of the survey is located in Appendix J on page 41. View the directory at <http://maps.sccommerce.com/resource/recyclingdirectory.aspx>.

A new search engine marketing campaign to promote the recycling directory was undertaken in fall 2009 where targeted ads specific to the Recycling Business Directory were generated through a pay-per-click ad campaign. Below are the aggregate results from the successful search engine marketing campaign from September to December 2009.

Campaign Summary Search - Recycling	To Date	December	November	October	September (21 days)
Impressions	127,346	25,249	39,772	32,318	30,007
Clicks	1,956	404	426	723	403

Recycling Newsletter

Staff develops a quarterly recycling newsletter that provides information on the activities of RMDAC, RIG, the recycling industry, legislation, partners and associations. Contacts for the newsletter receive announcements of upcoming meeting and conference dates. The newsletter also highlights new and expanding businesses in the state. Staff also sends out "Recycling Newsbits" – an email with relevant current event information and news articles to all contacts on a weekly basis.

S.C. Smart Business Recycling Program

The S.C. Smart Business Recycling Program provides free, confidential and non-regulatory technical assistance on recycling, waste reduction, beneficial reuse and other ways for businesses to conserve resources. The program offers site visits, waste assessments, market assistance, educational materials, staff training and other services. It is a partnership between Commerce and DHEC's Office of Solid Waste Reduction and Recycling, Center for Waste Minimization and Small Business Environmental Assistance Program.

Businesses, industries and other entities seeking recycling assistance can call DHEC toll-free at (800) 768-7348 or Commerce at (803) 737-0400. The S.C. Smart Business Recycling Program works to get businesses and industries to voluntarily report their recycling data to their county recycling coordinators. These numbers are utilized to determine the state's recycling rate. In

addition, this information will allow the program to determine measures to help increase the state's recycling rate and decrease the disposal rate. For more information on the program, visit www.scdhec.gov/environment/lwm/recycle/smart_business/index.htm.

On April 28, 2009, the S.C. Smart Business Recycling Program held its inaugural awards luncheon recognizing nine state businesses and organizations for their outstanding waste reduction and recycling programs. Award recipients included:

- Alcoa Mt. Holly, Goose Creek, S.C.
- Bausch & Lomb, Inc., Greenville, S.C.
- Freightliner Custom Chassis Corporation, Gaffney, S.C.
- Lexington Medical Center, Lexington, S.C.
- Kiawah Island Golf Resort, Kiawah Island, S.C.
- Milliken & Company, Spartanburg, S.C.
- Bible Way Church of Atlas Road, Columbia, S.C.
- McMillan Smith & Partners Architects, Charleston, S.C.
- Sun Printing, Lexington and Orangeburg, S.C.

Special recognition was given to Gretchen Lambert of Studio 2LR and Kay Hampton of Capitol Places for writing a grant application on behalf of the City of Columbia to start a business recycling program in the Congaree Vista.

Recycling Resources

In addition to Commerce's Recycling Directory and the S.C. Smart Business Recycling Program, several other resources exist to assist businesses, industries and the public with waste reduction, reuse and recycling. These resources include, but are not limited to:

S.C. Materials Exchange – a free, Web-based service that seeks to reduce waste by facilitating the exchange of reusable materials by businesses, non-profit institutions and government agencies. The Smart Business Recycling Program utilizes this tool to help encourage the reduction, reuse and recycling of materials and promotion of recycling markets. Recycling businesses, industry and individuals utilizing the exchange help increase the state's recycling rate and decrease the disposal rate. The exchange can be accessed at www.scdhec.gov/scme.

Index of Waste Minimization Resources – provides users of company by-products, waste minimization equipment, waste minimization programs and substitutes for hazardous materials.

Visit www.scdhec.gov/environment/admin/CWM/wmindex/WmindexSearch.aspx to access the index.

S.C. Green Building Directory – a free online tool of green building resources. The directory, established by the S.C. Sustainability Institute, provides information on products and services that support green building practices in the state. Commerce, DHEC and the S.C. Energy Office (EO) sponsored the development of the directory. The directory can be viewed at www.scgreenbuildingdirectory.org.

Carolina Recycling Association (CRA) – provides information on recycling markets and recycling centers. The CRA has several recycling councils and sponsors recycling workshops and webinars. In addition, the association hosts an annual recycling conference and trade show which rotates between N.C. and S.C. In 2009, the CRA held its 19th Annual Conference and Trade Show in Spartanburg, S.C. Staff participated on the conference planning committee, recommended conference sessions, recruited speakers, developed workshops, planned tours, reviewed award nominations and helped publicize the event. Staff also moderated conference sessions and workshops. For more information on the CRA, visit www.cra-recycle.org.

S.C. State Agency Green Purchasing Initiative – promotes and advances green purchasing amongst state government agencies. Staff is actively involved in this initiative and helped developed an environmentally preferred purchasing policy and guide for recycled products for S.C. state agencies. Monthly meetings are held between Commerce, DHEC, SCEO, S.C. Materials Management Office (MMO), S.C. Information Technology Management Office, S.C. Budget and Control Board, College of Charleston and Midlands Technical College. Staff helps promote environmental purchasing and recycled content products which helps advance S.C.'s recycling industry. Future workshops are planned to educate state procurement officers, vendors and other interested parties about the importance of environmental preferred purchasing. For more information on this initiative, visit www.mmo.sc.gov/MMO/MMO-index.phtml.

Solid Waste Association of North America (SWANA) – a solid waste professional organization that provides resources, professional development, certifications and networking opportunities. Its technical divisions include recycling and special waste, collection and transfer, waste-to-energy, and landfill gas. The S.C. Palmetto Chapter of SWANA recently received the "Largest Increase in Membership" and "Largest Percentage Increase in Memberships" awards at SWANA's national conference. It exceeded 46 other chapters to win both membership award categories. Ed Marr, president of the S.C. Palmetto Chapter, is also a member of RMDAC. For information on S.C. Palmetto Chapter of SWANA visit www.scswana.org/index.cfm.

Green is Good for Business Conference – helps businesses understand the importance of sustainability and incorporate sustainable practices into their daily operations by featuring presentations on recycling and waste reduction, water and energy efficiency, green cleaning, green purchasing and many other topics. Staff presented information on recycling during the recycling and waste reduction session. The conference, held on September 1, 2009, was hosted by CPAC and DHEC. For more information the Green is Good for Business Conference and CPAC visit www.coccpac.com.

Markets Update

Ferrous Metal

2009 Summary

2009 was a year of recovery and stability for ferrous metal. After four years of price fluctuations, unprecedented historical highs and one monumental crash, the market settled.

In the first quarter, prices drifted downward and towards the middle of the year prices began to show slow improvement. At the end of the year, the market took an unexpected jump as a tight supply of scrap caused prices to rise with a modest bump in demand. Slow industrial production and the prolonged scrap slump limited the availability of all grades of material which caused a temporarily imbalance.

During the year, some sectors showed better performance than others. Infrastructure projects passed as part of the government stimulus package seemed to have little impact in 2009 so steel bar products tied to construction remained mired at prior year levels (around 50 percent of capacity). Other initiatives, like Cash for Clunkers, provided a short term boost for the auto industry and related steel sheet products. Inventory replenishment also helped as these “flat roll” mills showed slow improvement during the year and stronger demand by comparison.

2010 Outlook

Slow and steady is the forecast for 2010. As the U.S. economy comes out of recession, and other countries follow, the need for ferrous metal will increase. Some price fluctuations will occur along the way as the industry experience some cyclical patterns. Overall, expect to see higher average prices in 2010 compared to the previous year.

Future Trends

Ferrous metal will continue to be a global commodity and the U.S. a net exporter. The U.S. is a large producer of scrap but other nations have large steel-making capacity and require America’s raw material. The industry will continue to become more sophisticated through the use of technology and as larger companies increase their market share, capital resources will be available for growth and expansion.

RMDAC Action

Despite the 2009 closure of two S.C. steel consumers, Georgetown Steel in Georgetown and Grede Foundries in Greenwood, the industry remains strong in the state with a good capacity for scrap metal collection & processing and steel making. RMDAC should promote these “green” companies whose recycling abilities are good for the environment and for the economy.

Nonferrous Metal

2009 Summary

Aluminum cash prices on the London Metal Exchange (LME) for calendar year 2009 averaged \$1,667 compared to \$2,571 in 2008.

Prices hit a low of \$1,253 in late February 2009, before beginning a slow, but steady recovery in the remaining three quarters of the year, reaching a high of \$2,237 on December 30, 2009.

The impetus behind the recovery in prices was a combination of drastic supply side management by primary producers of aluminum, along with the concentrated recovery of demand in some markets.

According to Alcoa estimates, global primary producers curtailed upwards of 6.5 million tons of capacity (annualized) at one point during 2009. China led with over 3.5 million tons. Total production in 2009 fell to 33.1 million tons compared to 38.7 million tons in 2008.

Shipment of aluminum products in the major world markets of North America, Japan and Europe exhibited the same pattern as price development in 2009 - very weak early in the year, with a pronounced bottoming February - April, then very slowly improving through the balance of the year. However, year on year shipments were still negative - North America down 19 percent, Europe down 19.5 percent and Japan down 23.8 percent.

Brazil, India and China all emerged from the recession well before the traditional developed world. China delivered positive growth of over four percent in primary aluminum in 2009, while India was unchanged relative to 2008 and Brazil “only” fell five percent. This contrasts with North America and Europe, where primary aluminum demand fell over 15 percent respectively. New production aluminum scrap supply was sharply lower in 2009 due to the much lower industrial production in the developed world. Obsolete scrap also slumped due to much lower automotive shredding due to lower steel demand and the much slower pace of demolition, replacement of durable goods containing aluminum.

2010 Forecast

LME and Midwest price forecasts are substantially higher than 2009. This confidence is predicated upon the belief that the western world economies will begin to rebound in 2010, boosting consumption. New production is estimated to be reasonably modest and the market will focus on working off accumulated surpluses from 2008 - 2009, LME stocks which moved to all time record high of over 4.6 million tons.

Demand for scrap materials is expected to recover even faster than primary demand due to increased export demand from China, and increased demand from original equipment manufacturers and consumers for “green” products containing higher percentages of recycled content.

Glass

2009 Summary

Glass collected in S.C. for recycling is sent to Strategic Materials, a glass processor, with locations in Ga. and N.C. Market prices average \$20 per ton for clear, \$11 per ton for brown and \$7 per ton for green. Strategic Materials also accepts unsorted three-mix glass in Raleigh, N.C. The charge for this mix is dependent upon the level of quality.

2010 Outlook

The market for glass cullet at container plants remains strong, driven by high energy costs, increased demand for glass containers and stiffer green house gas regulations. There is interest by container manufacturers to go green and increase post consumer content. Some manufacturers have as high as 50 percent post consumer content in new glass containers. Glass cullet demand has increased with fiberglass manufacturers because of high energy costs but also because of declining flat glass availability. The challenges with this market are tighter quality specs for the cullet. High fuel costs are affecting supply because of the higher cost of transporting unprocessed glass to processors. Pricing should stay constant this year.

Future Trends

Anticipated recovery of windshield glass, cathode ray tube glass and fluorescent light bulbs will increase. Also, new products made from glass are expected to be more available in the public markets.

RMDAC Action

RMDAC should continue to support programs that increase the overall recovery rate of recyclables in S.C. and encourage communities to look at alternative markets for recovered glass.

Paper

2009 Summary

Old Corrugated Cardboard (OCC)

In 2009, the paper industry started with a market of \$20 per ton and in February increased by \$5 per ton. In March, the price improved to \$45 per ton. Virgin material manufacturers utilized black liquor tax credits which hindered fiber recycling markets as they were not able to take advantage of this tax credit. In June and July, price per ton rose to \$75 – a \$15 per ton increase. In August, the market increased by another \$5 per ton and held steady in September at \$80 per ton. In October, the market dropped \$10 per ton to \$70 and held through November. In December, the market increased by \$10 per ton to \$80 and in January by another \$30 per ton raising the market to \$100 per ton. The mid-year increase helped the industry from devastating losses.

Newsprint

At \$25 per ton, pricing for newsprint was good in the beginning of 2009. The first upward movement came in March with a \$10 per ton increase. The market increased another \$10 per ton in April and held at \$45 until July when it rose another \$5 more per ton. August saw no changes, September rose by \$15 followed by another \$15 in October and held at \$80 per ton through November. In December, the market increased by \$10 and the year finished at \$90 per ton. For three years, newsprint has finished higher than OCC. Newsprint rose by \$5 per ton in January 2010 to start the year at \$95 per ton.

Mixed Paper

The market was at \$5 per ton in January 2009. In March, price per ton reached \$10. Mixed paper increased by \$5 per ton in April and \$10 per ton in May, June and July. In August, the market increased by \$5 per ton raising the mixed paper market to \$50 per ton. September added another \$10 per ton as did October. In November, the market held at \$70 per ton and finished the year at \$70 per ton. January of 2010 added another \$1 per ton.

Office Paper

The market started at \$100 per ton and held at this price until April when it decreased by \$5 per ton. In May, the market dropped by another \$5 per ton but increased in June by \$10 per ton. In July, the market rose by \$20 per ton to put the market at \$120 per ton. In August, there was another \$10 per ton increase and a \$15 per ton increase in September and October raising the market value to \$160 per ton. During November and December the market increased by \$10 per ton ending the year at \$180 per ton. In January of 2010 the market increased by another \$20 per ton.

2010 Outlook

Based on the pricing trends at the end of 2009, it appears the industry is slowly coming out of the recession. Look for prices to increase as the black liquor rebates go away and these mills go back to using recycled fiber. The OCC market is forecasted to be above \$150 per ton before mid-year.

Plastics

2009 Summary

Polyethylene Terephthalate (PET) Summary

According to recently published 2008 recycling rates from the National Association for PET Container Resources (NAPCOR), 1,450 million pounds of PET bottles were recycled out of 5,366 million pounds sold for a recycling rate of 27 percent. The recycling rate rose 2.2 percent from 2007 recovery levels. Post consumer bottle collections were up 55 million pounds from the previous year but were lower than the 124 million pound increase the previous year. The 2.2 percent increase in the PET recycling rate can be attributed to a drop in virgin PET resin

production. PET resin production dropped by 317 million pounds in 2008 or 5.6 percent below 2007 levels. This decrease was due largely to light weighting of bottles and lower demand in new products.

Domestic U.S. recyclers used only 42.4 percent of the PET collected in the U.S. with the rest going to export markets, mostly China. China purchased more than half the PET bottles collected in the U.S. – about 53 percent, or 766 million pounds, mostly in PET bales. The 615 million pounds that the U.S. PET recyclers purchased from domestic sources in 2008 was lower than the 641 million pounds they purchased in 2007 and the 619 million pounds purchased in 2006.

2009 Outlook

During the first part of 2009, demand for PET was in a recovery mode from the economic collapse in late 2008 but showed increasingly stronger signs of improving markets the latter half of the year. Lower levels of consumer spending worldwide had a huge impact on demand during the first part of the year but signs of recovery surfaced in the latter stages of the year.

Future Trends

Demand for PET bottles is forecasted to increase due to several new or restarted recycling plants slated to come on stream in 2010. Wellman Plastics Recycling, Clear Path, Orpet and Peninsula Packaging Co. have announced startups this year. These capacity additions are on top of expansions by Customs Polymers, NURRC, Phoenix Technologies International, Global PET Inc. and PWP Industries last year.

In addition, the Chinese government will begin issuing licenses to Chinese domestic companies which will allow the purchase of whole PET bottles in 2010. The import of whole PET bottles has been restricted into China for several years now. This will place further pressure worldwide on PET recycle bottles purchases.

RMDAC Action

RMDAC will continue to work closely with DHEC and the CRA to increase collections and develop new markets.

Used Oil

2009 Summary

The statewide used motor oil recycling program targeting do-it-yourselfers (DIYers), those who change their own oil, continues to flourish. Through a combination of educational programs, technical assistance and grant funding for local governments, S.C. has developed one of the nation's most comprehensive used motor oil recycling programs for DIYers.

According to figures compiled by the DHEC's Office of Solid Waste Reduction and Recycling (Office), DIYers recycled 957,708 gallons of used motor oil in 2008. Overall, more than 15

million gallons have been collected from DIYers since used motor oil recycling efforts began in S.C. in 1990. Figures for 2009 were not available when this document was prepared.

The recycling of used motor oil filters reflects a significant environmental protection program considering that each filter may contain from four ounces to one quart of oil if not properly drained. Most counties collect used motor oil filters from DIYers for recycling. Many of these counties collect and market used motor oil filters with large appliances and/or other metals. With this being the case, not all used motor oil filters that are being recycled are being counted directly. As a result, numbers are not available to measure used oil filter recycling efforts.

The recycling of motor oil bottles also offers an important environmental protection program considering that they can contain up to an ounce of oil each if not thoroughly drained. Most counties collect and market motor oil bottles with other pigmented high density polyethylene (HDPE) plastic. As a result, numbers are not available to directly measure motor oil bottle recycling efforts.

Introduced in January 2000, the Office continues to offer the “Green Driver Project” that targets students in high school driver education classes. The project stresses the environmental impact of driving and includes information on recycling used motor oil, filters and bottles, energy conservation, ground-level ozone prevention and other environmental tips. The project serves as a lifelong lesson in environmentally responsible driving. Since the project began, staff made 2,431 classroom presentations to 113,215 students. “DHEC 1: Behind the Oil Change,” a video chronicling the life of a driving teenager and the consequences of the decision to improperly dispose of used motor oil, debuted in summer 2002. The video has been extremely well accepted and received an In-Show Award that honors excellence in advertising and public relations. The video also won an Emmy Award from the National Academy of Television Arts and Sciences. In addition, the Office set up a partnership with Palmetto Pride to add a litter component, including litter laws and enforcement, beginning in 2002 to the “Project.”

2010 Forecast

The amount of used motor oil, bottles and filters collected for recycling should continue to grow in 2010. The priorities of the Office regarding the used motor oil recycling program are described below.

To continue to collect motor oil bottles. Most counties are using oil drain racks to drain the bottles and make them easier to process. Once drained, the motor oil bottles can be mixed with other HDPE plastics. This makes it easier to market the motor oil bottles. The Office will continue to encourage all counties to use the oil drain racks.

To continue to expand the farmer oil collection program by adding collection tanks where needed. There are currently 62 farmer oil collection sites in 40 counties. Three more counties will be setting up tanks in FY 2010 (July 1, 2009 – June 30, 2010). Each of the tanks holds at least 550 gallons of used motor oil and is fitted with a pump and hose to make it easier for farmers to recycle up to 55 gallons of used motor oil at one time.

To continue to expand the oil/gasoline mixture collection program by adding collection tanks where needed. There are currently 82 oil/gasoline mixture collection sites in 41 counties. Two

other counties will be setting up tanks in FY 2010. The oil/gasoline mixture tanks typically hold 500 gallons and are designed to accept motor oil, gasoline and oil/gasoline mixtures from lawn equipment and recreational vehicles.

To secure and maintain markets or other uses for used motor oil, bottles and filters.

Future Trends

The Office will continue to provide grant funding to local governments to set up, maintain and improve used motor oil recycling programs. The Office also will continue its statewide awareness campaign on used motor oil recycling including the national award winning “Recycle Guys” public service announcements and the “Green Driver Project.”

RMDAC Action

RMDAC should continue its work promoting, supporting and securing markets for the state’s used motor oil recycling program.

Waste Tires

2009 Summary

Each year, Commerce generates a survey for DHEC approved tire processors and recyclers. This survey helps determine the number of waste tires processed and landfilled in the state. The survey also shows the types of end-use market applications for waste tires. According to the survey, waste tires were processed for tire-derived fuel (TDF) alternate daily cover for landfills and non-landfill use such as septic system chips and highway fills.

2010 Outlook

The markets for TDF and ground rubber applications are expected to expand and cement kilns are expected to continue to be a major end-use market. Civil engineering application projects facilitated by the ARTS will help generate a market for processed crumb rubber.

Future Trends

Market demand for processed waste tires should remain stable. The TDF market is anticipated to grow due to increases in fuel prices. Markets for civil engineering applications should remain constant. As more crumb rubber is utilized in rubberized asphalt, playground and sport turfs, the demand for crumb rubber should grow.

RMDAC Action

The Council will continue to support existing waste tire markets and work with ARTS and the RMA to encourage the use of crumb rubber in asphalt rubber paving and other added-value applications for recycling waste tires in S.C. RMDAC will also continue to work with DHEC approved tire processors and recyclers to encourage reporting of tire numbers.

A copy of the waste tire survey is located in Appendix K on page 42.

2010 Goals and Objectives

During 2010, RMDAC plans to continue working with its partners to promote and advance S.C.'s recycling industry. These efforts will be achieved with help from partners such as Commerce, DHEC, RIG, New Carolina, CRA, Clemson University, ARTS, recycling businesses and many others.

RMDAC will continue to work with New Carolina to enhance RIG and recruit new members. This endeavor will be accomplished by marketing RIG through media releases, Web site placement, advertisements and presentations to relevant associations. A minimum of three RIG committee meetings will be held in addition to scheduled conference calls. These activities will help further RIG's goals and objectives which include job creation, increasing markets and conservation of resources.

The council is committed to attracting new recycling businesses to the state and expanding existing ones. Work will continue on the work plan strategies and efforts will be made to help increase material, expand markets and promote carpet, electronics and C & D as emerging markets.

Appendix A

RMDAC

Council Members	Representing
Gerald Fishbeck, Chair	Recycling Industry
Ronnie Grant, Vice Chair	Paper Industry
Phil Ammons	Plastics Industry
Michael Baird	S.C. Department of Commerce
Kristen Brown	General Public
Victor Carpenter	County Government
Norman Chandler	Solid Waste Collection and Disposal Industry
Chris Fisher	Glass Industry
Hari Krishnan	Tire Industry
Art Levy	Scrap Metal Industry
Everett “Lin” Longshore	Petroleum Industry
Donna London	Higher Education Research
Edwin Marr	Municipalities
William “Larry” McCaskill	Aluminum Industry

RMDAC Support (S.C. Department of Commerce, Business Services)

Chantal Fryer (RMDAC Team Leader)	Tonya Lott
Pat Burton	Ted Campbell
Andre LeBlanc	Leigh Roberson
Brandon Spence	Clarke Thompson
Chuck Bundy	

Appendix B

MetalTech Systems to Open Manufacturing Facility in Georgetown County

COLUMBIA, S.C. – January 14, 2009 – The South Carolina Department of Commerce and Georgetown County today announced that MetalTech Systems of South Carolina will open a new manufacturing facility in Georgetown County. MetalTech Systems will manufacture conveyor systems for the recycling industry, which will be sold to private waste management companies and municipalities. The company will invest approximately \$4 million dollars and create 60 new jobs as a result of the investment.

“We are pleased to expand our operations in South Carolina with this new manufacturing facility. Georgetown County provides us with a positive business environment and a strong workforce. We appreciate all the support we’ve received from state and local officials,” said Paul J. Hanna, President of MetalTech Systems.

MetalTech Systems, based in Pawley’s Island, has purchased a pre-existing building in Andrews, a 48,000 square foot manufacturing facility.

“MetalTech Systems designs and manufactures a complete line of conveyors with a complete knowledge in the wood, solid waste and recycling industries. The company has the expertise to engineer, manufacture and install a system to meet its clients’ specific needs. Their decision to expand their existing business and locate a new venture in our state speaks to the strength of our workforce and business climate. Thanks to the team efforts of local and state officials, Georgetown County will benefit from this investment,” said Joe Taylor, Secretary of Commerce.

Johnny Morant, Georgetown County Council Chairman, said “Georgetown County is excited to welcome MetalTech Systems as they join our growing business community. We are proud to have an environmentally friendly company that will manufacture conveyor systems for the recycling industry here. Local residents will certainly benefit from the sixty jobs that will be created. We look forward to a prosperous future with MetalTech Systems in Georgetown County.”

MetalTech Systems was founded in 1989 by Paul E. Hanna as an equipment sales company. Since then, the company has become a diversified engineering and construction management company, specializing in hot metals, construction and demolition waste recycling, metal recycling, renewable energy and manufacturing. The company’s waste recovery systems can reduce waste amounts to the landfill and provide an additional revenue stream for its customers by reselling waste materials for reuse or fuel.

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Appendix C

Sun Printing Announces Expansion in Lexington County

COLUMBIA, S.C. – March 3, 2009 – The South Carolina Department of Commerce, Lexington County and the Central SC Alliance today announced that Sun Printing will expand its printing facility in Lexington County. The \$6 million investment is expected to generate 50 new jobs.

“We are pleased to expand our operations in West Columbia and look forward to continuing to meet the needs of our existing and new customers. Lexington County has always been the perfect fit for our company, providing us with a business-friendly environment and a skilled workforce. We appreciate all the support we’ve received from state and local officials and look forward to growing our business in South Carolina,” said Philip Morris, vice president of Sun Printing.

The company is expanding into a state-of-the-art 20,000 square foot printing facility in West Columbia. The new facility features a fully integrated Heidelberg system that can not only move jobs quickly, but also give customers real-time information on the printing job. In fact, Sun Printing prides itself on being the fastest press operation “in our market area,” providing high quality with high speed and interactive communications.

“Sun Printing has been a part of the state’s business community for more than two decades, offering quality printing services to their customers. The company’s decision to expand its operations in our state is another sign that our pro-business climate and strong workforce are working to attract investment and help existing businesses grow even during these difficult economic times. Thanks to the team effort of state and local officials, Lexington County will benefit from this investment now and in the future,” said Joe Taylor, Secretary of Commerce.

“Sun Printing has a long history in the central South Carolina region, and we appreciate their continued commitment to the Palmetto State. We congratulate the company on its success and look forward to continuing our relationship with Sun Printing,” said Central SC Alliance Chairman Jim Apple.

“Sun Printing’s expansion truly represents what the “green” concept exemplifies. The company’s investment in a new 20,000 sq. ft. facility and state-of-the-art Heidelberg press is a testimony to their continued long term commitment to Lexington County,” said Debbie Summers, Chairwoman of Lexington County Council.

Sun Printing, established in 1983 in Orangeburg, provides a range of full color, custom printing services, from large-format digital printing to books and manuals. The company has six service locations across the United States and Mexico. For more information, visit www.sunprintingusa.com.

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Appendix D

Coastal Biodiesel Group Inc. Announces New Facility in Horry County

COLUMBIA, S.C. – March 24, 2009 – The South Carolina Department of Commerce and Horry County today announced that Coastal Biodiesel Group Inc. will open a new facility in Horry County. The \$4.5 million investment is expected to generate 50 new jobs.

“We are pleased to begin operations in South Carolina with our Conway facility. Horry County provides us with a positive business environment and excellent labor pool, as well as giving us excellent market access. We appreciate all the support we’ve received from state and local officials,” said Mark L. Hefner, president of Coastal Biodiesel Group.

Coastal Biodiesel will take used cooking oils from restaurants and commercial cooking firms to produce biodiesel. The company has purchased a 28,000 square foot facility in Conway, and estimates it could produce up to 4 million gallons of biodiesel annually.

“Coastal Biodiesel Group is an innovative start-up company that recycles used cooking oils and grease trap waste to produce biodiesel. The company’s decision to establish its operations in South Carolina is a strong testament that our state’s business-friendly climate, strong workforce and growing alternative energy sector are working to attract new investment. We welcome Coastal Biodiesel Group to South Carolina’s business community and wish them success in their new venture. Thanks to the team effort by state and local officials, Horry County will benefit from this investment with new jobs,” said Joe Taylor, Secretary of Commerce.

“We are proud that Coastal Biodiesel Group Inc. will be headquartered in Horry County. It confirms the strength of our regional assets during these challenging economic times,” said Jimmy Yahnis, Chairman of the Myrtle Beach Regional Economic Development Corporation Executive Committee.

The company plans to begin the oil collection and refinement process this week, and hopes to start biodiesel production in the next two to three months.

Coastal Biodiesel Group is a Southeastern-based company dedicated to providing high-grade biodiesel. The biodiesel will meet the highest quality ASTM fuel grade standards. The company will also offer waste grease capture services as well as core maintenance services to the restaurant and commercial cooking industries. For more information about the company, please visit www.coastalbiodiesel.com.

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Appendix E

Southeastern Petroleum Breaks Ground on New Facility in Chester County

COLUMBIA, S.C. – June 16, 2009 – The South Carolina Department of Commerce and Chester County today joined Southeastern Petroleum at a groundbreaking celebration in Chester County. In January, Southeastern Petroleum announced its plans to locate a new manufacturing facility in Chester County, investing approximately \$30 million and creating 24 new jobs. Today’s groundbreaking celebration marked the company’s initial step to begin its green manufacturing operations in Chester County.

“Pesco-Beam and Southeastern Petroleum are pleased to break ground in Chester, South Carolina. This is an excellent location and offers positive avenues for our business needs. We appreciate the effort and support that Chester County provided in assisting us in making the right decision. Our plans are to expand Southeastern Petroleum in the future and build a Pesco-Beam R&D Center on the property. We are glad to be part of Chester County,” said Richard L. Erwin, project consultant and corporate liaison for Pesco-Beam and Southeastern Petroleum.

Donald G. Burnette Sr., president of Southeastern Petroleum, is partnering with Pesco-Beam Environmental Solutions Inc. to bring state-of-the-art technology to Chester County.

Southeastern Petroleum is a green manufacturer of base oils used in the production of lubricants. Once fully operational, the company expects to produce up to 10 million gallons annually from their new Chester County facility.

“It’s great to see Southeastern Petroleum taking the next step to begin its new green manufacturing operations in Chester County. Southeastern Petroleum specializes in recycling used motor oil into base oils that are as good as or better than virgin base oils and diesel fuel. By fostering a business-friendly climate and focusing on building a skilled workforce, South Carolina has the tools to attract new investments from companies like Southeastern Petroleum and this in turn means job opportunities for workers in our state,” said Joe Taylor, Secretary of Commerce.

“We are pleased to partner with Southeastern Petroleum and are excited that they are breaking ground and moving forward to build an oil recovery operation here in Chester County. Southeastern Petroleum has committed to 24 jobs and an investment of \$30 million and a future Research and Development Facility. We will continue to work to make their efforts a success in Chester County!” R. Carlisle Roddey, Chester County supervisor.

Pesco-Beam, the majority stake holder in Southeastern Petroleum, designs and builds systems which recover high-quality oils from used oil streams to be placed back into the market. Pesco-Beam specializes in custom design systems to meet the specific need of each individual client. These systems combine technologies that will produce a superior product without producing more waste which can damage the environment.

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Appendix F

Waste2Energy Holdings Inc Announces New Headquarters in Greenville County

COLUMBIA, S.C. – September 29, 2009 – The South Carolina Department of Commerce, the Greenville Area Development Corporation and Waste2Energy Holdings Inc. have announced the location of the company's corporate headquarters to Greenville, S.C., including the planned addition of at least 25 jobs over the next few years, as part of the organization's strategic growth initiatives in North America.

Waste2Energy is a worldwide supplier of proprietary gasification technology designed to convert municipal solid waste, biomass and other solid waste streams traditionally destined for landfills into clean, renewable energy. Waste2Energy designs, builds and installs waste-to-energy plants that generate "Renewable Green Power" and are scalable, modular, environmentally friendly and robust enough to operate in remote environments.

The Greenville headquarters initially will house administration, engineering, sales, marketing and customer service support to customers, primarily landfill owners / operators, project developers, municipalities, hospitals, military bases and mining sites, according to Peter Bohan, CEO for Waste2Energy Holdings Inc. New capital investment in the headquarters operation is estimated at less than \$1 million. Bohan expects the Greenville headquarters, located at 1 Chick Springs Road in Greenville, to foster "substantial sales opportunities across North America in the near term, with significant opportunity to grow from there. Our products and services are ideally suited to resolving the proliferation of waste in landfills in and around smaller cities in particular," he noted.

Waste2Energy was drawn to Greenville by a combination of factors, including its plentiful engineering and project management talent pool, its accessibility and acclaimed regional airport, reasonable costs for conducting business, temperate climate and high quality of life factors, and Bohan's own familiarity with the region from past travels to the Upstate.

"There's no doubt that the outstanding engineering and project management talent in this region, the Greenville-Spartanburg airport and the lower costs of doing business here were drivers in our selection," said Bohan. "This area is known for its top engineering talent, and the quality of life in this region makes it easy to attract and retain quality employees here."

The company's clients are international and diverse, noted Bohan, while reiterating that he sees a tremendous opportunity to expand its North American client base from the new Greenville headquarters operation. "Our customers span the globe – from Wake Island in the Pacific Ocean to Iceland and Scotland and from military bases to municipalities and manufacturing campuses – and we feel we have barely scratched the surface of our potential in the contiguous 48 states," he added. "We are excited to establish operations here in Greenville County, and very appreciative of the support and leadership of the Greenville Area Development Corporation and Department of Commerce in making this announcement a reality."

The company's Batch Oxidation System, or BOS, provides a low emission and low labor approach to small and medium-scale solid waste disposal – ideal for small cities and private industry. Utilizing a gasification process which thermally converts waste products into a burnable gas, the two-stage process provides the lowest possible emissions and is the most environmentally sound method for waste disposal. By adding thermal recovery equipment, the hot effluent gas from the can be used to produce steam and electricity, and is ideal for processing waste streams up to 500 tons per day of waste processing.

For biomass and agro-industrial producers, Waste2Energy's Continuous Oxidation Reactor (CORTM) is a low-cost gasification and oxidation system which oxidizes at high temperature in either a single or double chamber, giving extremely clean emissions. It is ideally suited to large quantities of biomass or other consistent waste feedstock up to 1,000 tons per day, and can be supplied with or without energy capture for the production of steam or electricity.

"Waste2Energy, as a supplier of waste-to-energy technology, will enhance our growing alternative energy sector in the Upstate. The company's decision to bring its corporate headquarters to South Carolina is a strong testament that our business-friendly climate, skilled workforce and exceptional market access are working to attract new investment and create new job opportunities for South Carolinians. Thanks to the team effort of state and local officials, Greenville County will benefit from this investment now and in the future," said Joe Taylor, Secretary of Commerce.

Chairman of Greenville County Council, H.G. "Butch" Kirven, remarked, "We are excited because this enterprise will complement and enhance Greenville County's already robust interest in economically viable energy businesses. For example, Greenville County provides methane gas from the closed Enoree Landfill that is converted into commercial electricity. This company's decision to locate here confirms that conditions for innovation, enterprise, and opportunity are excellent in Greenville County."

The company expects to begin hiring for the headquarters operations in mid-fourth quarter of 2009, added Bohan, who noted that most positions to be filled will be in the engineering, project management and finance arenas. The company expects to invite applications for positions via their website, located at www.waste2energy.com. Wage specifics were not released.

"Waste2Energy is a great example of how a company that combines world-class technology and innovative engineering processes with an Upstate location can grow their business in North America," said Mike Buitter, Chairman of the Greenville Area Development Corporation Board. "The company is research-based, innovative and growth-oriented, and a wonderful reflection of the opportunities to be found in Greenville County and South Carolina."

"We are excited by Waste2Energy's relocation to Greenville," stated Greenville Mayor Knox White. "Greenville continues to rank nationally as having one of the highest concentrations of engineers, and companies like this are a perfect match to the skills in our community. I am pleased to see that we continue to attract companies that are at the leading edge of technology."

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Appendix G

ECOS Paints Inc. Announces New Facility in Spartanburg County

COLUMBIA, S.C. – October 15, 2009 – The South Carolina Department of Commerce, the Economic Futures Group of Spartanburg County and the Upstate Alliance today announced that ECOS Paints Inc. will locate its new facility in Spartanburg County. The \$400,000 investment is expected to generate at least 10 new jobs.

“We are extremely pleased to move forward with our new operation in Spartanburg. Demand for our products has increased in the U.S. and Spartanburg provides us with an excellent location from which to reach our customers. South Carolina also benefits us with an excellent business environment and solid workforce. We appreciate all the support we’ve received from state and local officials,” said Bob Emptage, president of ECOS Paints.

ECOS Paints has been active in the United Kingdom and European markets for more than 20 years, and the new manufacturing and distribution facility will help the company meet increased demand in the United States. Not only are the company’s products environmentally friendly, but the new facility will also recycle its wash down water and recycled boxes will be used in shipping the paints.

“ECOS Paints is a fast-growing manufacturer and distributor of a unique line of paints and finishes. The company’s decision to locate its new manufacturing and distribution operation in South Carolina is a strong testament that our business-friendly climate, strong workforce and excellent market access continue to attract new investment and create job opportunities. Thanks to the team effort of state and local officials, Spartanburg County will benefit from this investment now and in the future,” said Joe Taylor, Secretary of Commerce.

“We are extremely pleased that ECOS Paints Inc. is locating a new facility here,” said Carter Smith, executive vice president of Spartanburg County’s Economic Futures Group. “ECOS Paints’ decision to locate their facility in Spartanburg County adds to our growing list of ‘green’ companies with their eco-friendly paints and finishes. Their decision also demonstrates our community’s ability to attract quality companies providing capital investment and excellent job opportunities for the citizens of Spartanburg.”

“ECOS Paints defines ‘environmentally-friendly.’ This state-of-the-art facility will be a global leader in the ‘green market’ and we are confident that we as a community can partner with ECOS Paints for a prosperous future in the Upstate. This has been a true team experience and congratulations to Spartanburg County and the State of South Carolina for a job well done,” said Hal Johnson, CEO of the Upstate SC Alliance.

The company plans to fill positions after the facility is finished and paint production starts in the next couple of months.

ECOS Paints Inc. is a producer of a range eco-friendly paints and finishes for both interior and exterior applications. The company’s paints are completely VOC free, solvent free and odor free.

ECOS Paints also strives to be eco-friendly in its operations as well as its products. For more information about the company, please visit www.ecospaints.com.

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Appendix H

Fujifilm Announces Relocation of Camera Recycling Operation to Greenwood County

COLUMBIA, S.C. – November 4, 2009 – The South Carolina Department of Commerce and Greenwood County today announced that Fujifilm will move its recycling operation for its QuickSnap cameras and the Waterproof QuickSnap camera assembly and packaging operations from a facility in Mexico to the Greenwood campus. The move is expected to create approximately 30 new jobs in Greenwood.

“By transferring these functions to our Greenwood campus, we will have better control of our recycled parts stream as well as our recycled parts cost, and we will reduce transportation costs,” said Shin Kataoka, president, FUJIFILM Manufacturing U.S.A., Inc. “It also means that the entire production and recycling operations for global QuickSnap production will be located here in Greenwood.”

Fujifilm estimates that approximately 60 percent of the QuickSnap cameras sold make it back to the recycling center which handles more than 1 million cameras a month. The Greenwood facility already produces QuickSnap cameras for the global market and with the transfer of the recycling and assembly operations, the Greenwood facility will be the global hub for the entire QuickSnap camera product life-cycle.

“This is yet more great news for Fujifilm and more great news for Greenwood. Fujifilm’s decision to bring its camera recycling operations to Greenwood further expands the company’s presence in our state and this announcement is another sign that our business-friendly climate and market access are helping existing businesses continue to grow. We are pleased to see Fujifilm make another investment in South Carolina and we wish them much success in their endeavors,” said Joe Taylor, Secretary of Commerce.

“Fujifilm is an innovation-driven company that has a proven history of sustainable growth and success in Greenwood County,” said Robbie Templeton, Greenwood County Council Chairman. “Implementing a more efficient recycling process is not only a win for Fujifilm and its employees, but the Greenwood community and society at large.”

Fujifilm invented the one-time-use camera, which is often mistakenly thought of as “disposable,” when in fact, excluding the batteries; over 99 percent of these cameras (by weight) are reused or recycled. The Fujifilm QuickSnap brand has served as a model for inverse manufacturing technology and materials recycling since its introduction in 1986. Since then millions of one-time-use cameras have been reclaimed through Fujifilm’s QuickSnap recycling program, preventing thousands of tons of waste from entering landfills.

Fujifilm has implemented a range of measures around the world with the objective of contributing to sustainable development by designing products that take the environment into account, reducing packaging materials, and reducing greenhouse gas emissions. Fujifilm is the leading manufacturer of UV cured, VOC-free, and solvent-free ink jet inks. The company’s high-performance films used in flat panel displays are manufactured with plant-derived cellulose,

rather than petroleum-based material; the films carry the Biomass Mark of the Japanese Ministry of Agriculture, Forestry and Fisheries. Fujifilm supports numerous eco-sustainability measures, including habitat and species preservation for the Giant Panda through its longstanding collaboration with the Smithsonian's National Zoo, and support of public open space initiatives such as New York City's Friends of the Highline.

About FUJIFILM Manufacturing U.S.A., Inc.

FUJIFILM Manufacturing U.S.A., Inc., began manufacturing operations in South Carolina in 1988. The Greenwood manufacturing complex is currently comprised of five high technology manufacturing plants, the Greenwood Research Laboratories, and the largest Fujifilm distribution center in the world. The 1,000 Associates employed at the 500-acre complex currently manufacture digital and conventional pre-sensitized plates, QuickSnap one-time-use recyclable cameras, and color photographic paper.

FUJIFILM Corporation brings continuous innovation and leading-edge products to a broad spectrum of industries, including electronic imaging, photofinishing equipment, medical systems, life sciences, graphic arts, flat panel display materials, and office products, based on a vast portfolio of digital, optical, fine chemical and thin film coating technologies. The company was among the top 15 companies around the world granted U.S. patents in 2008, employs more than 70,000 people worldwide and in the year ended March 31, 2009, had global revenues of \$24 billion. Fujifilm is committed to environmental stewardship and good corporate citizenship. For more information, please visit www.fujifilmholdings.com.

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Appendix I

S.C. Recycling Businesses Recognized for Achievements

COLUMBIA, S.C. – November 10, 2009 – The South Carolina Recycling Market Development Advisory Council and the South Carolina Department of Commerce recently recognized the achievements of five recycling businesses for their impact on South Carolina’s environment, communities and economy. The 2009 Recycling Business Forum was held last month in Columbia. The forum provided information on South Carolina’s Recycling Industry Group, business reporting, recycling markets and featured presentations by the Georgia Department of Community Affairs, the Carolina Recycling Association and the Southeast Recycling Development Council. The following businesses were recognized for achievements in recycling:

Best Small Recycling Business – Ever Green Recycling Company LLC, Greenville

Ever Green Recycling collects paper, cardboard, aluminum, plastic, glass and electronics for recycling. The company has partnered with more than 50 businesses to develop and implement recycling programs and provide recycling services. Ever Green Recycling has recycled over 250 tons of materials in the past year and is a member of South Carolina’s Recycling Industry Group, U.S. Green Building Council and other local environmental organizations. Ever Green Recycling is also active in the local community and is working with the Metropolitan Arts Council in Greenville on a campaign to place permanent recycling receptacles wrapped in artwork, provided by local artists, around downtown Greenville.



Best Medium Recycling Business – Hahl Inc., Lexington

Hahl Inc. recycles cardboard, plastic bottles, aluminum cans, paper and fluorescent light bulbs. Nearly 80 percent of scrap produced by Hahl's extrusion department is recycled. Hahl, a manufacturer of monofilament, bristle and abrasive bristle, greatly reduced the amount of solid waste disposed of in landfills to 70 tons in 2009 compared to 195 tons in 2008. Hahl has also set goals to further reduce the amount of materials sent to landfills for 2010.



Best Large Business – Kiawah Island Golf Resort, Kiawah Island

Kiawah Island Golf Resort recycles office paper, glass, plastic bottles, aluminum cans, electronics, pallets, batteries, florescent light bulbs and oyster shells. Damaged automobile, golf cart and bike tires are also collected and sent to a rubber recycler. The Resort holds electronic recycling drives and collects pallets for recirculation back to the shipping industry. Gravel in the parking lots is made from slag, a by-product of the steel industry, and room keys are made from 50 percent recycled polyvinyl chloride. Unused cell phones and empty printer cartridges are collected and donated to local schools or sold to recycling companies. The resort also has a small-scale, educational compost bin that handles animal bedding, vegetative food prep and plant material from landscaping.



Best Reuse Program – Sea Island Habitat for Humanity- Deconstruction Unit, Johns Island

Sea Island Habitat for Humanity – Deconstruction Unit diverted over 94 tons of usable materials from the landfill. The Sea Island Habitat for Humanity’s staff handles both the deconstruction and removal of building materials and accessories, as well as housing a reuse store. Work on 93 construction projects had a direct estimated value of over \$119,000.

Reusing items such as epoxy decking, appliances, carpet and cabinets saves energy and natural resources.



Recycler of the Year – Santee Cooper, Moncks Corner

During FY 2009, Santee Cooper recycled over 970,000 tons of materials including paper, cardboard, aluminum cans, used motor oil, fluorescent tubes, consumer electronics, gypsum, flyash, ferrous metals, wood products, lead-acid, alkaline and rechargeable batteries. The calculated goal is based on the quantities recycled, carpooling miles saved, landfill gas and solar generation. Santee Cooper’s Give Oil for Energy Program began in 1990 and has more than 450 do-it-yourself collection sites.



The following companies were also recognized for their waste reduction and recycling efforts: Tomato Palms, Sun Printing, AnMed Health, Southeastern Plastics Recovery and Tomato Vines.

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Appendix J

SOUTH CAROLINA DEPARTMENT OF COMMERCE – RECYCLING MARKET DEVELOPMENT 2008/2009 SURVEY OF SC RECYCLING BUSINESSES

NAME OF COMPANY		CONTACT TITLE	
PREFIX	CONTACT FIRST NAME	MIDDLE INITIAL	LAST NAME
CONTACT PHONE #	CONTACT FAX #	CONTACT EMAIL	COMPANY PHONE #
COMPANY TOLL FREE #	COMPANY FAX #	COMPANY EMAIL	COMPANY WEBSITE
PHYSICAL ADDRESS OF FACILITY			
PHYSICAL CITY		STATE SC	ZIP + 4
MAILING ADDRESS FOR THIS FACILITY		STATE	ZIP + 4
Please check the category(ies) that best defines your role as a recycling company:			
<input type="checkbox"/> Hauler	<input type="checkbox"/> Processor	<input type="checkbox"/> End-User	<input type="checkbox"/> Broker
<input type="checkbox"/> Collector	<input type="checkbox"/> Reuse	<input type="checkbox"/> Exporter	<input type="checkbox"/> Recycling Equipment
<input type="checkbox"/> Remanufacturer			
Please check the materials below that your company transports, processes or uses as a raw material.			
Construction & Demolition:			
<input type="checkbox"/> Concrete & Brick	<input type="checkbox"/> Asphalt Pavement	<input type="checkbox"/> Boiler Flashing	<input type="checkbox"/> Paper:
<input type="checkbox"/> Bricks	<input type="checkbox"/> Vinyl Siding (PVC)	<input type="checkbox"/> Carpet	<input type="checkbox"/> Corrugated Cardboard - Waxed
<input type="checkbox"/> Drywall (Gypsum)	<input type="checkbox"/> Salvaged Building Materials	<input type="checkbox"/> Carpet Padding	<input type="checkbox"/> Paper - Office Mix
<input type="checkbox"/> Scrap Lumber	<input type="checkbox"/> Aggregate	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Corrugated Cardboard
<input type="checkbox"/> Railroad Ties	<input type="checkbox"/> Deconstruction Services	<input type="checkbox"/> Fly or Bottom Ash	<input type="checkbox"/> Fiber Drums
<input type="checkbox"/> Ceiling Tiles		<input type="checkbox"/> Other (please write in)	<input type="checkbox"/> Magazines
<input type="checkbox"/> Roofing Material			<input type="checkbox"/> Newspaper
<input type="checkbox"/> Paper Tubes	<input type="checkbox"/> Paper - Kraft	<input type="checkbox"/> Paper - Card Stock	<input type="checkbox"/> Aluminum Laminated Paper
<input type="checkbox"/> Books - Hard Cover	<input type="checkbox"/> Books - Soft Cover	<input type="checkbox"/> Paperboard	<input type="checkbox"/> Other (please write in)
Metal:			
<input type="checkbox"/> Ferrous	<input type="checkbox"/> Steel Drums	<input type="checkbox"/> ABS	<input type="checkbox"/> PE
<input type="checkbox"/> Non-Ferrous	<input type="checkbox"/> Cans - Aerosol	<input type="checkbox"/> Foam	<input type="checkbox"/> PS
<input type="checkbox"/> Appliances	<input type="checkbox"/> Foundry Sand	<input type="checkbox"/> Mixed Plastic	<input type="checkbox"/> PVC
<input type="checkbox"/> Automobiles	<input type="checkbox"/> Steel Slag	<input type="checkbox"/> Nylon	<input type="checkbox"/> Teflon/Agriculture Plastic
<input type="checkbox"/> Batteries - Household	<input type="checkbox"/> Propane Cylinders	<input type="checkbox"/> HDPE	<input type="checkbox"/> Plastic Buckets - HDPE
<input type="checkbox"/> Batteries - Lead Acid	<input type="checkbox"/> Other (please write in)	<input type="checkbox"/> LDPE	<input type="checkbox"/> Other (please write in)
<input type="checkbox"/> PETE			
Organics			
<input type="checkbox"/> Restaurant Food Waste	<input type="checkbox"/> Bakery Waste	<input type="checkbox"/> Beverage Waste	<input type="checkbox"/> Brewery Waste
<input type="checkbox"/> Cooking Oil	<input type="checkbox"/> Restaurant Grease	<input type="checkbox"/> Other (please write in)	
Oil and Petroleum:			
<input type="checkbox"/> Diesel	<input type="checkbox"/> Transmission Fluid	<input type="checkbox"/> Manure	<input type="checkbox"/> Sawdust and Bark
<input type="checkbox"/> Combustible Petroleum	<input type="checkbox"/> Mineral Oil	<input type="checkbox"/> Biosolids	<input type="checkbox"/> Land clearing debris
<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Other Used Oil	<input type="checkbox"/> Manufacturing Scrap	<input type="checkbox"/> Pallets
<input type="checkbox"/> Light Grease	<input type="checkbox"/> Oil Filters	<input type="checkbox"/> Mobile Wood Recycler	<input type="checkbox"/> Yard Waste
<input type="checkbox"/> Used Motor Oil	<input type="checkbox"/> Other (please write in)	<input type="checkbox"/> Boiler Fuel	<input type="checkbox"/> Other (please write in)
<input type="checkbox"/> Mulch			
Rubber:			
<input type="checkbox"/> EPDM Rubber	<input type="checkbox"/> SBR Rubber	<input type="checkbox"/> Glass:	<input type="checkbox"/> Lab Glass
<input type="checkbox"/> Foam Rubber	<input type="checkbox"/> Automotive Tires	<input type="checkbox"/> Clear	<input type="checkbox"/> Plate and Window Glass
<input type="checkbox"/> Rubber Inner Tubes	<input type="checkbox"/> Other Rubber	<input type="checkbox"/> Brown	<input type="checkbox"/> Lead Glass
<input type="checkbox"/> Other (please write in)	<input type="checkbox"/> Other (please write in)	<input type="checkbox"/> Green	<input type="checkbox"/> Mirror Glass
<input type="checkbox"/> Other (please write in)		<input type="checkbox"/> Mixed Glass	<input type="checkbox"/> Other (please write in)
Electronics/Computers:			
<input type="checkbox"/> Electronic Equipment and Scrap	<input type="checkbox"/> Monitors - Flat Screens	<input type="checkbox"/> Textile Clippings	<input type="checkbox"/> Polyester - Textile
<input type="checkbox"/> Monitors - CRT's	<input type="checkbox"/> Televisions - Flat Screens	<input type="checkbox"/> Material - Wovens	<input type="checkbox"/> Cotton
<input type="checkbox"/> Reels	<input type="checkbox"/> Cartridges	<input type="checkbox"/> Material - Nonwovens	<input type="checkbox"/> Wool
<input type="checkbox"/> Telecommunications Scrap	<input type="checkbox"/> Fluorescent Tubes and Ballasts	<input type="checkbox"/> Nylon - Textile	<input type="checkbox"/> Rags
<input type="checkbox"/> Televisions - CRT	<input type="checkbox"/> Other (please write in)	<input type="checkbox"/> Rayon	<input type="checkbox"/> Textile Floor Sweeps
<input type="checkbox"/> Polycotton			
Textiles:			
<input type="checkbox"/> Sheeting Material	<input type="checkbox"/> Textile Cones - Paper	<input type="checkbox"/> Textile Cones - Plastics	<input type="checkbox"/> Carbon Fiber
<input type="checkbox"/> Other (please write in)			
Other (please list):			
Please indicate type of waste you handle: <input type="checkbox"/> Post Consumer <input type="checkbox"/> Post Industrial			
Please list and describe products you manufacture that contain recycled materials (use additional paper if necessary):			

Prepared by (please print name): _____
Please return to the SC Department of Commerce, RMDAC, Attention: Chantel Fryer, 1201 Main St., Suite 1600, Columbia, SC 29201, cfryer@sccommerce.com or by fax: (803) 806-3427.

Appendix K

**South Carolina Department of Commerce
Recycling Market Development
2009 Waste Tire Survey**

Company Name: _____

Contact Name: _____

Email Address: _____

Phone Number: _____

Fax Number: _____

Please provide the number of **TIRES IN TONS** processed in 2009:

Post Consumer (from retail, municipal and individuals) from S.C.? _____

Post Industrial (from manufacturing and industrial scrap tires) from S.C.? _____

Post Consumer from other states? _____

Post Industrial from other states? _____

What **PERCENTAGE** of processed tires was used in the following end-use market applications?

Tire-Derived Fuel: Whole Tires _____% Processed Material _____%

Civil Engineering:

Landfill Use for Alternate Daily Cover _____%

Landfill Use for Construction (leachate layers, gas laterals, trenches, landfill caps) _____%

Non-Landfill Use (such as septic system chips, highway fills) _____%

Ground/Crumb Rubber: _____%

What was the crumb rubber used for? _____

What was/were the mesh size(s)? _____

Landscapes: _____% *Playground Material:* _____% *Sports Surfacing:* _____%

Molded, Extruded, Pressed, or Stamped Manufactured Products: _____%

Other: _____% Please describe _____

What **PERCENTAGE** of your product is sold in S.C.? _____%

How many tons of whole or processed S.C. tires were land-filled in 2009? _____

Do you take large off-road, farm, mining, or logging equipment tires?

Yes _____ No _____ If yes, how many tons? _____

How many tons of S.C. tires did your company export out of the United States in 2009? _____

Do you have markets for steel and fabric waste? If yes, what are they? _____

Comments (use additional paper if necessary):

SURVEY RESULTS WILL BE KEPT CONFIDENTIAL

Appendix L

2009 Recycling Related Legislation

Bill Number	Sponsor	Description	Link
Senate Bill 131	Sheheen, Leventis	Electronics recycling bill featuring advanced recovery fees	http://www.scstatehouse.gov/cgi-bin/web_bh10.exe?bill1=131&session=118
House Bill 3200	Funderburk	Electronic recycling bill featuring manufacturer responsibility for electronics recycling in the state	http://www.scstatehouse.gov/cgi-bin/web_bh10.exe?bill1=3200&session=118
Senate Bill 173	Cleary	ABC recycling requiring permitted facilities to recycle beverage containers sold for the purpose of on premise consumption	http://www.scstatehouse.gov/sess118_2009-2010/bills/173.htm
Senate Bill 184	McConnell	Scrap metal purchases require photo ID	http://www.scstatehouse.gov/sess118_2009-2010/prever/184_20081217.htm
House Bill 3153	Harrison, Daning	Vehicle scrap purchases require photo ID	http://www.scstatehouse.gov/sess118_2009-2010/prever/3153_20081216.htm
House Bill 3160	Harrison, Battle	Unlawful to transport nonferrous metals under certain circumstances	http://www.scstatehouse.gov/sess118_2009-2010/prever/3160_20081216.htm
House Bill 3156	Brady	Provides preference for environmentally preferable purchases by state agencies	http://www.scstatehouse.gov/sess118_2009-2010/prever/3156_20081216.htm
Senate Bill 88	Ford	Provides preference for environmentally preferable purchases by state agencies	http://www.scstatehouse.gov/sess118_2009-2010/bills/88.htm
Senate Bill 9	McConnell, Leventis, Rose, Elliot	Requires state agencies to become more energy efficient, purchase green power and buy compact fluorescent bulbs to replace incandescent ones	http://www.scstatehouse.gov/sess118_2009-2010/prever/9_20081210.htm
House Resolution 08-09	Pickens County Delegation	Support for recycling incentives by the General Assembly	http://www.co.pickens.sc.us/council/agendas/081215res0809.pdf